



10570909 - GAU: 1633

Used in Lieu of PTO/SB/08A/B
(Based on PTO 04-07 version)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/570,909-Conf. #1220
				Filing Date	March 29, 2006
				First Named Inventor	Carsten Hopf
				Art Unit	1633
				Examiner Name	Hill, Kevin Kai
Sheet	1	of	12	Attorney Docket Number	14129-00001-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA*	US-4,683,202	07-28-1987	Mullis	
	AB*	US-4,683,195	07-28-1987	Mullis et al.	
	AC*	US-4,816,397	03-28-1989	Boss et al.	
	AD*	US-4,816,567	03-28-1989	Cabilly et al.	
	AE*	US-4,889,818	12-26-1989	Gelfand et al.	
	AF*	US-4,980,286	12-25-1990	Morgan et al.	
	AG*	US-5,096,815	03-17-1992	Ladner et al.	
	AH*	US-5,198,346	03-30-1993	Ladner et al.	
	AI*	US-5,223,409	06-29-1993	Ladner et al.	
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	AK*	US-5,498,538	03-12-1996	Kay et al.	
	AL*	US-5,545,806	08-13-1996	Lonberg et al.	
	AM*	US-5,569,825	10-29-1996	Lonberg et al.	
	AN*	US-5,582,981	12-10-1996	Toole et al.	
	AO*	US-5,585,089	12-17-1996	Queen et al.	
	AP*	US-5,625,126	04-29-1997	Lonberg et al.	
	AQ*	US-5,633,425	05-27-1997	Lonberg et al.	
	AR*	US-5,661,016	08-26-1997	Lonberg et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)				
	BA	EP-0125023	11-14-1984	Genentech, Inc. & City of Hope		
	BB	EP-0171496-A2	02-19-1986	Research Development Corporation of Japan		
	BC	EP-0173494-A2	03-05-1986	The Board of Trustees of the Leland Stanford Junior University		
	BD	WO-86/01533-A1	03-13-1986	Cell-Tech Limited		
	BE	EP-0184187-A2	06-11-1986	Teijin Limited		
	BF	WO-87/02671-A1	05-07-1987	International Genetic Engineering, Inc.		
	BG	WO-88/01649-A1	03-10-1988	Genex Corporation		
	BH	WO-88/09810-A1	12-15-1988	Synthetic Genetics		
	BI	WO-89/10134-A1	11-02-1989	The Regents of the University of California		
	BJ	WO-90/02809-A1	03-22-1990	Protein Engineering Corporation		
	BK	EP-0368684-B1	05-16-1990	Medical Research Council		
	BL	WO-90/11364-A1	10-04-1990	University Patents, Inc.		
	BM	WO-91/17271-A1	11-14-1991	Affymax Technologies N.V.		
	BN	WO-92/01047-A1	01-23-1992	Cambridge Antibody Technology Limited & Medical Research Council		
	BO	WO-92/06180-A1	04-16-1992	University of Connecticut		
	BP	WO-92/09690-A2	06-11-1992	Genentech, Inc.		
	BQ	WO-92/15679-A1	09-17-1992	Protein Engineering Corporation		
	BR	WO-92/18619-A1	10-29-1992	The Scripps Research Institute		

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	BS	WO-92/20791-A1	11-26-1992	Cambridge Antibody Technology Limited & Medical Research Council		
	BT	WO-92/20316-A2	11-26-1992	University of Connecticut & Targetech, Inc.		
	BU	WO-92/22635-A1	12-23-1992	University of Connecticut & University of Michigan		
	BV	WO-93/01288-A1	01-21-1993	Deutsches Krebsforschungszentrum Stiftung des Öffentlichen Rechts		
	BW	WO-93/06213-A1	04-01-1993	Medical Research Council & Cambridge Antibody Technology Limited		
	BX	WO-93/14188-A1	07-22-1993	The Regents of the University of Michigan		
	BY	WO-93/20221-A1	10-14-1993	Young		
	BZ	WO-93/20242-A1	10-14-1993	The Scripps Research Institute		
	BA1	WO-94/08598-A1	04-28-1994	Advanced Tissue Sciences, Inc.		
	BB1	WO-94/18318-A1	08-14-1994	The University of North Carolina at Chapel Hill		
	BC1	WO-95/11910-A1	05-04-1995	Ribozyme Pharmaceuticals, Inc.		
	BD1	WO-97/29116-A1	08-14-1997	Cruachem Limited		
	BE1	WO-98/24884-A1	06-11-1998	Genpharm International		
	BF1	WO-98/37240-A1	08-27-1998	TM Technologies, Inc.		
	BG1	WO-00/09716-A1	02-24-2000	Europäisches Laboratorium für Molekularbiologie		
	BH1	EP-1105508-B1	06-13-2001	Europäisches Laboratorium für Molekularbiologie (EMBL)		
	BI1	WO-03/019146-A2	03-06-2003	Xenon Genetics Inc.		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
	CA	ALBALA, J. S., "Array-based proteomics: the latest chip challenge", Expert Rev. Mol. Diagn., 2001, Vol. 1, No. 2, 145-152.				
	CB	AMARZGUIOUI, M., et al., "Hammerhead ribozyme design and application", Cell. Mol. Life Sci., 1998, Vol. 54, pp. 1175-1202.				
	CC	ANDRAU, D., et al., "BACE1- and BACE2-expressing human cells – Characterization of β -amyloid precursor protein-derived catabolites, design of a novel fluorimetric assay, and identification of new <i>in vitro</i> inhibitors", The Journal of Biological Chemistry, 2003, Vol. 278, No. 28, pp. 25859-25866.				
	CD	ANNAERT, W., et al., "A cell biological perspective on Alzheimer's disease", Annu. Rev. Cell Dev. Biol., 2002, Vol. 18, pp. 25-51.				
	CE	BANGA, S. S., et al., "Assignment of PTK7 encoding a receptor protein tyrosine kinase-like molecule to human chromosome 6p21.1→p12.2 by fluorescence in situ hybridization", Cytogenetics and Cell Genetics, 1997, Vol. 76, pp. 43-44.				
	CF	BEIDLER, C. B., et al., "Cloning and high level expression of a chimeric antibody with specificity for human carcinoembryonic antigen", The Journal of Immunology, 1988, Vol. 141, No. 11, pp. 4053-4060.				

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CG	BEIGELMAN, L., et al., "Synthesis and biological activities of a phosphorodithioate analog of 2',5' -oligoadenylate", Nucleic Acids Research, 1995, Vol. 23, No. 19, pp. 3989-3994.
CH	BENOIST, C., et al., " <i>In vivo</i> sequence requirements of the SV40 early promoter region", Nature, 1981, Vol. 290, 304-310.
CI	BESTE, G., et al., "Small antibody-like proteins with prescribed ligand specificities derived from the lipocalin fold", Proc. Natl. Acad. Sci. USA, 1999, Vol. 96, pp. 1898-1903.
CJ	BETTER, M., et al., " <i>Escherichia coli</i> Secretion of an active chimeric antibody fragment", Science, 1988, Vol. 240, pp. 1041-1043.
CK	BLASKO, I., et al., "Experimental traumatic brain injury in rats stimulates the expression, production and activity of Alzheimer's disease β -secretae (BACE-1)", Journal of Neural Transmission, 2004, Vol. 111, pp. 523-536.
CL	BLAWAS, A. S., et al., "Protein Patterning", Biomaterials, 1998, Vol. 19, pp. 595-609.
CM	BOCK, L. C., et al., "Selection of single-stranded DNA molecules that bind and inhibit human thrombin", Nature, 1992, Vol. 355, pp. 564-566.
CN	BOESEN, J. J. B., et al., "Circumvention of chemotherapy-induced myelosuppression by transfer of the <i>mdr1</i> gene", Biotherapy, 1994, Vol. 6, pp. 291-302.
CO	BOUT, A., et al., "Lung gene therapy: <i>In vivo</i> adenovirus-mediated gene transfer to rhesus monkey airway epithelium", Human Gene Therapy, 1994, Vol. 5, pp. 3-10.
CP	BRENNER, S., et al., "Encoded combinatorial chemistry", Proc. Natl. Acad. Sci. USA, 1992, Vol. 89, pp. 5381-5383.
CQ	BRINSTER, R. L., et al., "Regulation of metallothionein-thymidine kinase fusion plasmids injected into mouse eggs", Nature, 1982, Vol. 296, pp. 39-42.
CR	BRODY, E. N., et al., "Aptamers as therapeutic and diagnostic agents", Reviews in Molecular Biotechnology, 2000, Vol. 74, 5-13.
CS	BUCHWALD, H., et al., "Long-term, continuous intravenous heparin administration by an implantable infusion pump in ambulatory patients with recurrent venous thrombosis", Surgery, 1980, Vol. 88, No. 4, pp. 507-516.
CT	BUNIN, B. A., et al., "The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library", Proc. Natl. Acad. Sci. USA, 1994, Vol. 91, pp. 4708-4712.
CU	CAO, X., et al., "A transcriptionally active complex of APP with Fe65 and histone acetyltransferase Tip60", Science, 2001, Vol. 293, pp. 115-120.
CV	CAPECCHI, M. R., "Altering the genome by homologous recombination", Science, 1989, Vol. 244, pp. 1288-1292.
CW	CHEN, F., et al., "Nicastrin binds to membrane-tethered notch", Nature Cell Biology, 2001, Vol. 3, pp. 751-754.
CX	CHEN, C. S., et al., "Geometric control of cell life and death", Science, 1997, Vol. 276, pp. 1425-1428.
CY	CHO, H. P., et al., "Cloning, expression, and fatty acid regulation of the human Δ -5 desaturase", The Journal of Biological Chemistry, 1999, Vol. 274, No. 52, pp. 37335-37339.
CZ	CHOU, P. Y., et al., "Conformational parameters for amino acids in helical, β -sheet, and random coil regions calculated from proteins", Biochemistry, 1974, Vol. 13, No. 2, pp. 211-222.
CA1	CHUNG, H-M., et al., "Nicastrin is required for presenilin-mediated transmembrane cleavage in <i>Drosophila</i> ", Nature Cell Biology, 2001, Vol. 3, pp. 1129-1132.
CB1	CLINE, M.J., "Perspectives for gene therapy: Inserting new genetic information into mammalian cells by physical techniques and viral vectors", Pharmac. Ther., 1985, Vol. 29, pp. 69-92.
CC1	CLOWES, M. M., et al., "Long-term biological response of injured rat carotid artery seeded with smooth muscle cells expressing retrovirally introduced human genes", J. Clin. Invest., 1994, Vol. 93, pp. 644-651.

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CD1	COTTEN, M., et al., "Receptor-mediated transport of DNA into eukaryotic cells", Methods in Enzymology, 1993, Vol. 217, pp. 618-644.
CE1	COUTURE, L. A., et al., "Anti-gene therapy: the use of ribozymes to inhibit gene function", Trends in Genetics, 1996, Vol. 12, No. 12, pp. 510-515.
CF1	DAVEY, H. M., et al., "Flow cytometry and cell sorting of heterogeneous microbial populations: the importance of single-cell analyses", Microbiological Reviews, 1996, Vol. 60, No. 4, pp. 641-696.
CG1	DE STROOPER, B., et al., "Deficiency of presenilin-1 inhibits the normal cleavage of amyloid precursor protein", Nature, 1998, Vol. 391, pp. 387-390.
CH1	DE STROOPER, B., et al., "A presenilin-1-dependent γ -secretase-like protease mediates release of Notch intracellular domain", Nature, 1999, Vol. 398, pp. 518-522.
CI1	DEXTER, T. M., et al., "Conditions controlling the proliferation of haemopoietic stem cells in vitro", J. Cell. Physiol., 1977, Vol. 91, pp. 335-344.
CJ1	DIAMOND, B. A., et al., "Monoclonal antibodies - A new technology for producing serologic reagents", The New England Journal of Medicine, 1981, Vol. 304, No. 22, pp. 1344-1349.
CK1	DURING, M. J., et al., "Controlled release of dopamine from a polymeric brain implant: in vivo characterization", Annals of Neurology, 1989, Vol. 25, No. 4, pp. 351-356.
CL1	EKINS, R. P., "Multi-analyte immunoassay", Journal of Pharmaceutical & Biomedical Analysis, 1989, Vol. 7, No. 2, pp. 155-168.
CM1	ELBASHIR, S. M., et al., "RNA interference is mediated by 21- and 22-nucleotide RNAs", Genes & Development, 2001, Vol. 15, pp. 188-200.
CN1	ELBASHIR, S. M., et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells", Nature, 2001, Vol. 411, pp. 494-498.
CO1	ELLINGTON, A. D., et al., "Selection <i>in vitro</i> of single-stranded DNA molecules that fold into specific ligand-binding structures", Nature, 1992, Vol. 355, pp. 850-852.
CP1	EMSLEY, R., et al., "Clinical potential of omega-3 fatty acids in the treatment of schizophrenia", CNS Drugs, 2003, Vol. 17, No. 15, pp. 1081-1091.
CQ1	ENGSTRÖM, A., "The arrangement of the protein molecules in nuclear-polyhedrosis inclusions", Biochem. Exp. Biol., 1974, Vol. 11, pp. 7-13.
CR1	ERB, E., et al., "Recursive deconvolution of combinatorial chemical libraries", Proc. Natl. Acad. Sci. USA, 1994, Vol. 91, pp. 11422-11426.
CS1	FIGEYS, D., et al., "Proteomics on a chip: Promising developments", Electrophoresis, 2001, Vol. 22, Vol. 208-216.
CT1	FOWLKES, D. M., et al., "Multipurpose vectors for peptide expression on the M13 viral surface", BioTechniques, 1992, Vol. 13, No. 3, pp. 422-427.
CU1	FRANCIS, R., et al., "aph-1 and pen-2 are required for notch pathway signaling, γ -secretase cleavage of β APP, and presenilin protein accumulation", Developmental Cell, 2002, Vol. 3, pp. 85-97.
CV1	FREEMAN, G. J., et al. "Sequential expression of new gene programs in inducer T-cell clones", Proc. Natl. Acad. Sci. USA, 1983, Vol. 80, pp. 4094-4098.
CW1	FUCHS, P., et al., "Targeting recombinant antibodies to the surface of <i>Escherichia coli</i> : Fusion to a peptidoglycan associated lipoprotein", Bio/Technology, 1991, Vol. 9, 1369-1372.
CX1	GALLOP, M. A., et al., "Applications of combinatorial technologies to drug discovery. 1. Background and peptide combinatorial Libraries", Journal of Medicinal Chemistry, 1994, Vol. 37, No. 9, 1233-1251.
CY1	GAUTIER, C., et al., " α -DNA IV: α -anomeric and β -anomeric tetrathymidylates covalently linked to intercalating oxazopyridocarbazole. Synthesis, physicochemical properties and poly (rA) binding", Nucleic Acids Research, 1987, Vol. 15, No. 16, 6625-6641.
CZ1	GEORGAKOPOULOS, A., et al., "Presenilin-1 forms complexes with the cadherin/catenin cell-

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		cell adhesion system and is recruited to intercellular and synaptic contacts", <i>Molecular Cell</i> , 1999, Vol. 4, pp. 893-902.	
CA2		GIBSON, I., "Antisense approaches to the gene therapy of cancer - 'Recnac'", <i>Cancer and Metastasis Reviews</i> , 1996, Vol. 15, pp. 287-299.	
CB2		GOLDSPIEL, B. R., et al., "Human gene therapy", <i>Clinical Pharmacy</i> , 1993, Vol. 12, pp. 488-505.	
CC2		GOOD, P. D., et al., "Expression of small, therapeutic RNAs in human cell nuclei", <i>Gene Therapy</i> , 1997, Vol. 4, pp. 45-54.	
CD2		GRASSI, G., et al., "Ribozymes: Structure, function and potential therapy for dominant genetic disorders", <i>Trends in Molecular Medicine</i> , 1996, Vol. 28, pp. 499-510.	
CE2		GRIFFITHS, A. D., et al., "Human anti-self antibodies with high specificity from phage display libraries", <i>The EMBO Journal</i> , 1993, Vol. 12, No. 2, pp. 725-734.	
CF2		GROSSMAN, M., et al., "Retroviruses: delivery vehicle to the liver", <i>Current Opinion in Genetics and Development</i> , 1993, Vol. 3, pp. 110-114.	
CG2		GYLLENSTEN, U. B., et al., "Generation of single-stranded DNA by the polymerase chain reaction and its application to direct sequencing of the <i>HLA-DQA</i> locus", <i>Proc. Natl. Acad. Sci. USA</i> , 1988, Vol. 85, pp. 7652-7656.	
CH2		HAY, B. N., et al., "Bacteriophage cloning and <i>Escherichia coli</i> expression of a human IgM Fab", <i>Hum. Antibod. Hybridomas</i> , 1992, Vol. 3, pp. 81-85.	
CI2		HONORÉ, B., "Genome- and Proteome-based technologies: status and applications in the postgenomic era", <i>Expert Rev. Mol. Diagn.</i> , 2001, Vol. 1, No. 3, pp. 265-274.	
CJ2		HOPP, T. P., et al., "Prediction of protein antigenic determinants from amino acid sequences" <i>Proc. Natl. Acad. Sci. USA</i> , 1981, Vol. 78, No. 6, pp. 3824-3828.	
CK2		HOUGHTEN, R. A., et al., "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery", <i>Nature</i> , 1991, Vol. 354, pp. 84-86.	
CL2		HOUGHTEN, R. A., et al., "The use of synthetic peptide combinatorial libraries for the identification of bioactive peptides", <i>BioTechniques</i> , 1992, Vol. 13, No. 3, pp. 412-421.	
CM2		HOWARD, M. A., et al., "Acute subdural hematomas: an age-dependent clinical entity", <i>J. Neurosurg.</i> , 1989, Vol. 71, pp. 858-863.	
CN2		HU, Y., et al., "Nicastrin is required for γ -secretase cleavage of the <i>Drosophila</i> Notch receptor", <i>Developmental Cell</i> , 2002, Vol. 2, pp. 69-78.	
CO2		HUNKAPILLER, M., et al., "A microchemical facility for the analysis and synthesis of genes and proteins", <i>Nature</i> , 1984, Vol. 310, pp. 105-111.	
CP2		HUSE, W. D., et al., "Generation of a large combinatorial library of the immunoglobulin repertoire in phage lambda", <i>Science</i> , 1989, Vol. 24, pp. 1275-1281.	
CQ2		HUTCHISON, C. A., et al., "Mutagenesis at a specific position in a DNA sequence", <i>The Journal of Biological Chemistry</i> , 1978, Vol. 253, No. 18, pp. 6551-6560.	
CR2		INOUE, H., et al., "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and RNase H", <i>FEBS Letters</i> , 1987, Vol. 215, No. 2, pp. 327-330.	
CS2		INOUE, H., et al., "Synthesis and hybridization studies on two complementary nona(2'-O-methyl)ribonucleotides", <i>Nucleic Acids Research</i> , 1987, Vol. 15, No. 15, pp. 6131-6148.	
CT2		LI, Q., et al., "Cleavage of amyloid- β Precursor protein and amyloid- β precursor-like protein by BACE 1", <i>The Journal of Biological Chemistry</i> , 2004, Vol. 279, No. 11, pp. 10542-10550.	
CU2		JAYASENA, S. D., "Aptamers: An emerging class of molecules that rival antibodies in diagnostics", <i>Clinical Chemistry</i> , 1999, Vol. 45, No. 9, pp. 1628-1650.	
CV2		JESPER, L. S., et al., "Guiding the selection of human antibodies from phage display repertoires to a single epitope of an antigen", <i>Bio/Technology</i> , 1994, Vol. 12, pp. 899-903.	
CW2		JOLIOT A., et al., "Antennapedia homeobox peptide regulates neural morphogenesis", <i>Proc. Natl. Acad. Sci. USA</i> , 1991, Vol. 88, pp. 1864-1868.	

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CX2	JONES, P. T., et al., "Replacing the complementarity-determining regions in a human antibody with those from a mouse", <i>Nature</i> , 1986, Vol. 321, pp. 522-525.
CY2	KADONAGA, J. T., et al., "Affinity purification of sequence-specific DNA binding proteins", <i>Proc. Natl. Acad. Sci. USA</i> , 1986, Vol. 83, pp. 5889-5893.
CZ2	KANE, R. S., et al., "Patterning proteins and cells using soft lithography", <i>Biomaterials</i> , 1999, Vol. 20, pp. 2363-2376.
CA3	KARLSTRÖM, A., et al., "Dual labeling of a binding protein allows for specific fluorescence detection of native protein", <i>Analytical Biochemistry</i> , 2001, Vol. 295, pp. 22-30.
CB3	KAUVAR, L. M., et al., "Predicting ligand binding to proteins by affinity fingerprinting", <i>Chemistry & Biology</i> , 1995, Vol. 2, No. 2, pp. 107-118.
CC3	KAUVAR, L. M., "Affinity Fingerprinting - A novel approach to quantitative chemical classification proves useful in drug discovery", <i>Bio/Technology</i> , 1995, Vol. 13, pp. 965-966.
CD3	KAY, B. K., et al., "An M13 phage library displaying random 38-amino-acid peptides as a source of novel sequences with affinity to selected targets", <i>Gene</i> , 1993, Vol. 128, pp. 59-65.
CE3	KENNEDY, M. E., et al., "Measuring human β -secretase (BACE1) activity using homogeneous time-resolved fluorescence", <i>Analytical Biochemistry</i> , 2003, Vol. 319, pp. 49-55.
CF3	KIEM, H-P., et al., "Retrovirus-mediated gene transduction into canini peripheral blood repopulating cells", <i>Blood</i> , 1994, Vol. 83, No. 6, pp. 1467-1473.
CG3	KLUG, S. J., et al., "All you wanted to know about SELEX", <i>Molecular Biology Reports</i> , 1994, Vol. 20, pp. 97-107.
CH3	KLUßMANN, S., et al., "Mirror-image RNA that binds D-adenosine", <i>Nature Biotechnology</i> , 1996, Vol. 14, pp. 1112-1115.
CI3	KODO, H., et al., "Antibody synthesis by bone marrow cells in vitro following primary and booster tetanus toxoid immunization in humans", <i>J. Clin. Invest.</i> , 1984, Vol. 73, pp. 1377-1384.
CJ3	KÖHLER, G., et al., "Continuous cultures of fused cells secreting antibody of predefined specificity", 1975, Vol. 256, pp. 495-497.
CK3	KOLLER, B. H., et al., "Inactivating the β 2-microglobulin locus in mouse embryonic stem cells by homologous recombination", <i>Proc. Natl. Acad. Sci. USA</i> , 1989, Vol. 86, pp. 8932-8935.
CL3	KOPAN, R., et al., "A common enzyme connects Notch signaling and Alzheimer's disease", <i>Genes & Development</i> , 2000, Vol. 14, pp. 2799-2806.
CM3	KOVACS, D. M., et al., "Alzheimer-associated presenilins 1 and 2: Neuronal expression in brain and localization to intracellular membranes in mammalian cells", <i>Nature Medicine</i> , 1996, Vol. 2, No. 2, pp. 224-229.
CN3	KOZARSKY, K. F., et al., "Gene therapy: adenovirus vectors", <i>Current Opinion in Genetics and Development</i> , 1993, Vol. 3, pp. 499-503.
CO3	KOZBOR, D., et al., "The production of monoclonal antibodies from human lymphocytes", <i>Immunology Today</i> , 1983, Vol. 4, No. 3, pp. 72-79.
CP3	VAN DER KROL, A. R., et al., "Modulation of eukaryotic gene expression by complementary RNA or DNA sequences", <i>BioTechniques</i> , 1988, Vol. 6, No. 10, pp. 958-976.
CQ3	LAM, K. S., et al., "A new type of synthetic peptide library for indentifying ligand-binding activity", <i>Nature</i> , 1991, Vol. 354, pp. 82-84.
CR3	LANGER, R., "New methods of drug delivery", <i>Science</i> , 1990, Vol. 249, pp. 1527-1533.
CS3	LEE, K-B., et al., "Protein nanoarrays generated by dip-pen nanolithography", <i>Science</i> , 2002, Vol. 295, pp. 1702-1705.
CT3	LEE, K. H., "Proteomics: a technology-driven and technology-limited discovery science", <i>Trends in Biotechnology</i> , 2001, Vol. 19, No. 6, pp. 217-222.
CU3	LEMAITRE, M., et al., "Specific antiviral activity of a poly(L-lysine)-conjugated oligodeoxyribonucleotide sequence complementary to vesicular stomatitis virus N protein mRNA initiation site", <i>Proc. Natl. Acad. Sci. USA</i> , 1987, Vol. 84, pp. 648-652.

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CV3	LEONETTI, J-P., et al., "Antibody-targeted liposomes containing oligodeoxyribonucleotides complementary to viral RNA selectively inhibit viral replication", Proc. Natl. Acad. Sci. USA, 1990, Vol. 87, pp. 2448-2451.
CW3	LETSINGER, R. L., et al., "Cholesteryl-conjugated oligonucleotides: synthesis, properties, and activity as inhibitors of replication of human immunodeficiency virus in cell culture", Proc. Natl. Acad. Sci. USA, 1989, Vol. 86, pp. 6553-6556.
CX3	LEVY, R. J., et al., "Inhibition of calcification of bioprosthetic heart valves by local controlled-release diphosphate", Science, 1985, Vol. 228, pp. 190-192.
CY3	LI, Q., et al., "Cleavage of amyloid- β precursor protein and amyloid- β precursor-like protein by BACE 1", The Journal of Biological Chemistry, 2004, Vol. 279, No. 11, pp. 10542-10550.
CZ3	LIU, A. Y., et al., "Production of a mouse-human chimeric monoclonal antibody to CD20 with potent Fc-dependent biologic activity", The Journal of Immunology, 1987, Vol. 139, No. 10, pp. 3521-3526.
CA4	LIU, A. Y., et al., "Chimeric mouse-human IgG1 antibody that can mediate lysis of cancer cells", Proc. Natl. Acad. Sci. USA, 1987, Vol. 84, pp. 3439-3443.
CB4	LOEFFLER, J-P., et al., "Gene transfer into primary and established mammalian cell lines with lipopolyamine-coated DNA", Methods in Enzymology, 1993, Vol. 217, pp. 599-618.
CC4	LOH, E. Y., et al., "Polymerase chain reaction with single-sided specificity: Analysis of T cell receptor δ chain", Science, 1989, Vol. 243, pp. 217-220.
CD4	LONBERG, N., et al., "Human antibodies from transgenic mice", Intern. Rev. Immunol., 1995, Vol. 13, pp. 65-93.
CE4	LÓPEZ-SCHIER, H., et al., "Drosophila Nicastrin is essential for the intramembranous cleavage of Notch", Developmental Cell, 2002, Vol. 2, pp. 79-89.
CF4	LÜTHI, U., et al., "Human β -secretase activity in yeast detected by a novel cellular growth selection system", Biochimica et Biophysica Acta, 2003, Vol. 1620, pp. 167-178.
CG4	LYNCH, A. M., et al., "Analysis of Interleukin-1 β -induced cell signaling activation in rat hippocampus following exposure to gamma irradiation", The Journal of Biological Chemistry, 2003, Vol. 278, No. 51, pp. 51075-51084.
CH4	MACBEATH, G., et al., "Printing proteins as microarrays for high-throughput function determination", Science, 2000, Vol. 289, pp. 1760-1763.
CI4	MAHLER, S. M., et al., "Cloning and expression of human V-genes derived from phage display libraries as fully assembled human anti-TNF α monoclonal antibodies", Immunotechnology, 1997, Vol. 3, pp. 31-43.
CJ4	MARQUARDT, A., et al., "cDNA cloning, genomic structure, and chromosomal localization of three members of the human fatty acid desaturase family", Genomics, 2000, Vol. 66, 175-183.
CK4	MASTRANGELI, A., et al., "Diversity of airway epithelial cell targets for in vivo recombinant adenovirus-mediated gene transfer", The Journal of Clinical Investigation, 1993, Vol. 91, pp. 225-234.
CL4	PERKINS, D. N., et al., "Probability-based protein identification by searching sequence databases using mass spectrometry data", Electrophoresis, 1999, Vol. 20, pp. 3551-3567.
CM4	MATTER, H., "Selecting optimally diverse compounds from structure databases: A validation study of two-dimensional and three-dimensional molecular descriptors", J. Med. Chem., 1997, Vol. 40, pp. 1219-1229.
CN4	ROBINSON, C., "Gene therapy - proceeding from laboratory to clinic", TIBTECH, 1993, Vol. 11, p. 155.
CO4	MCDONNELL, J. M., "Surface plasmon resonance: towards an understanding of the mechanisms of biological molecular recognition", Current Opinion in Chemical Biology, 2001, Vol. 5, pp. 572-577.
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	CQ4	MILLER, A. D., et al., "Use of retroviral vectors for gene transfer and expression", Methods in Enzymology, 1993, Vol. 217, pp. 581-599.	
	CR4	MITCHELL, P., "A perspective on protein microarrays", Nature Biotechnology, 2002, Vol. 20, pp. 225-229.	
	CS4	MORGAN, R. A., et al., "Human gene therapy", Annu. Rev. Biochem., 1993, Vol. 62, pp. 191-217.	
	CT4	MORRISON, S. L., "Transfectomas provide novel chimeric antibodies", Science, 1985, Vol. 229, pp. 1202-1207.	
	CU4	MOSSIE, K., et al., "Colon carcinoma kinase-4 defines a new subclass of the receptor tyrosine kinase family", Oncogene, 1995, Vol. 11, pp. 2179-2184.	
	CV4	MULLIGAN, R. C., "The basic science of gene therapy", Science, 1993, Vol. 260, pp. 926-932.	
	CW4	NAQVI, T., et al., "β galactosidase enzyme fragment complementation as a high-throughput screening protease technology", Journal of Biomolecular Screening, 2004, Vol. 9, No. 5, pp. 398-407.	
	CX4	International Human Genome Sequencing Consortium, "Initial sequencing and analysis of the human genome", Nature, 2001, Vol. 409, pp. 860-921.	
	CY4	NELLEN, W., et al., "What makes an mRNA anti-sense-itive", TIBS, 1993, Vol. 18, pp. 419-423.	
	CZ4	NELSON, R. W., et al., "Biosensor chip mass spectrometry: A chip-based proteomics approach", Electrophoresis, 2000, Vol. 21, pp. 1155-1163.	
	CA5	NISHIMURA, Y., et al., "Recombinant human-mouse chimeric monoclonal antibody specific for common acute lymphocytic leukemia antigen", Cancer Research, 1987, Vol. 47, pp. 999-1005.	
	CB5	NOLTE, A., et al., "Mirror-design of L-oligonucleotide ligands binding to L-arginine", Nature Biotechnology, 1996, Vol. 14, pp. 1116-1119.	
	CC5	NORD, K., et al., "Binding proteins selected from combinatorial libraries of an α-helical bacterial receptor domain", Nature Biotechnology, 1997, Vol. 15, pp. 772-777.	
	CD5	NORD, K., et al., "Recombinant human factor VIII-specific affinity ligands selected from phage-displayed combinatorial libraries of protein A", Eur. J. Biochem., 2001, Vol. 268, pp. 4269-4277.	
	CE5	OBUKOWICZ, M. G., et al., "Novel, selective Δ6 or Δ5 fatty acid desaturase inhibitors as antiinflammatory agents in mice", The Journal of Pharmacology and Experimental Therapeutics, 1998, Vol. 287, No. 1, pp. 157-166.	
	CF5	OBUKOWICZ, M. G., et al., "Identification and characterization of a novel Δ6/Δ5 fatty acid desaturase inhibitor as a potential anti-inflammatory agent", Biochemical Pharmacology, 1998, Vol. 55, pp. 1045-1058.	
	CG5	OCHMAN, H., et al., "Genetic applications of an inverse polymerase chain reaction", Genetics, 1988, Vol. 120, pp. 621-623.	
	CH5	OH, M., et al., "Cell-based assay for β-secretase activity", Analytical Biochemistry, 2003, Vol. 323, pp. 7-11.	
	CI5	OHLMEYER, M. H. J., et al., "Complex synthetic chemical libraries indexed with molecular tags", Proc. Natl. Acad. Sci. USA, 1993, Vol. 90, pp. 10922-10926.	
	CJ5	OI, V. T., et al., "Chimeric antibodies", Biotechniques, 1986, Vol. 4, No. 3, pp. 214-221.	
	CK5	OLDENBURG, K. R., et al., "Peptide ligands for a sugar-binding protein isolated from a random peptide library", Proc. Natl. Acad. Sci. USA, 1992, Vol. 89, pp. 5393-5397.	
	CL5	ORFAO, A., et al., "General concepts about cell sorting techniques", Clinical Biochemistry, 1996, Vol. 29, No. 1, pp. 5-9.	
	CM5	OSTRESH, J. M., et al., "Libraries from libraries: Chemical transformation of combinatorial	
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	CN5	PARMLEY, S. F., et al., "Antibody-selectable filamentous fd phage vectors: affinity purification of target genes", Gene, 1988, Vol. 73, pp. 305-318.	
	CO5	PARMLEY, S. F., et al., "Filamentous fusion phage cloning vectors for the study of epitopes and design of vaccines", Advances in Experimental Medicine and Biology, 1989, Vol. 251, pp. 215-218.	
	CP5	PEARSON, J. E., et al., "Analytical aspects of biosensors", Ann. Clin. Biochem., 2000, Vol. 37, 119-145.	
	CQ5	PEARSON, W. R., "Searching protein sequence libraries: Comparison of the sensitivity and selectivity of the Smith-Waterman and FASTA algorithms", Genomics, 1991, Vol. 11, pp. 635-650.	
	CR5	PERSIDIS, A., "Ribozyme therapeutics: These versatile molecules are emerging as a potential new class of drugs", Nature Biotechnology, 1997, Vol. 15, pp. 921-922.	
	CS5	PETRICOIN, E. F., et al., "Use of proteomic patterns in serum to identify ovarian cancer", The Lancet, 2002, Vol. 359, 572-577.	
	CT5	PITTELKOW, M. R., et al., "New techniques for the in vitro culture of human skin keratinocytes and perspectives on their use for grafting of patients with extensive burns", Mayo Clin. Proc., 1986, Vol. 61, pp. 771-777.	
	CU5	XIA, W., et al., "Interaction between amyloid precursor protein and presenilins in mammalian cells: Implications for the pathogenesis of Alzheimer disease", Proc. Natl. Acad. Sci. USA, 1997, Vol. 94, pp. 8208-8213.	
	CV5	REBAR, E. J., et al., "Zinc finger phage: Affinity selection of fingers with new DNA-binding specificities", Science, 1994, Vol. 263, pp. 671-673.	
	CW5	RENNEISEN K., et al., "Inhibition of expression of human immunodeficiency virus-1 <i>in vitro</i> by antibody-targeted liposomes containing antisense RNA to the <i>env</i> region", The Journal of Biological Chemistry, 1990, Vol. 265, No. 27, pp. 16337-16342.	
	CX5	RHEINWALD, J. G., "Serial cultivation of normal human epidermal keratinocytes", Methods in Cell Biology, 1980, Vol. 21A, Chapter 15, pp. 229-254.	
	CY5	RIGAUT, G., et al., "A generic protein purification method for protein complex characterization and proteome exploration", Nature Biotechnology, 1999, Vol. 17, pp. 1030-1032.	
	CZ5	ROBERTS, R. W., "Totally <i>in vitro</i> protein selection using mRNA-protein fusions and ribosome display", Current Opinion in Chemical Biology, 1999, Vol. 3, pp. 268-273.	
	CA6	ROSENFELD, M. A., et al., "Adenovirus-mediated transfer of a recombinant α 1-antitrypsin gene to the lung epithelium in vivo", Science, 1991, Vol. 252, pp. 431-434.	
	CB6	ROSENFELD, M. A., et al., "In vivo transfer of the human cystic fibrosis transmembrane conductance regulator gene to the airway epithelium", Cell, 1992, Vol. 68, pp. 143-155.	
	CC6	SALMON, S. E., et al., "Discovery of biologically active peptides in random libraries: Solution-phase testing after staged orthogonal release from resin beads", Proc. Natl. Acad. Sci. USA, 1993, Vol. 90, pp. 11708-11712.	
	CD6	SALMONS, B., et al., "Targeting of retroviral vectors for gene therapy", Human Gene Therapy, 1993, Vol. 4, pp. 129-141.	
	CE6	SARIN, P. S., et al., "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", Proc. Natl. Acad. Sci. USA, 1988, Vol. 85, pp. 7448-7451.	
	CF6	SARVER, N., et al., "Ribozymes as potential anti-HIV-1 therapeutic agents", Science, 1990, Vol. 247, pp. 1222-1225.	
	CG6	SATOH, J.-I., et al., "Nicastrin, a key regulator of presenilin function, is expressed constitutively in human neural cell lines", Neuropathology, 2001, Vol. 21, pp. 115-122.	

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CH6	SAUDEK, C. D., et al., "A preliminary trial of the programmable implantable medication system for insulin delivery", The New England Journal of Medicine, 1989, Vol. 321, No. 9, pp. 574-579.
CI6	VASSAR, R., et al., " β -secretase cleavage of Alzheimer's amyloid precursor protein by the transmembrane aspartic protease BACE", Science, 1999, Vol. 286, pp. 735-741.
CJ6	SCOTT, J. K., et al., "Searching for peptide ligands with an epitope library", Science, 1990, Vol. 249, pp. 386-390.
CK6	SEFTON, M. V., "Implantable pumps", CRC Critical Reviews in Biomedical Engineering, 1987, Vol. 14, pp. 201-240.
CL6	SHAW, D. R., et al., "Mouse/human chimeric antibodies to a tumor-associated antigen: Biologic activity of the four human IgG subclasses", Journal of the National Cancer Institute, 1988, Vol. 80, No. 19, pp. 1553-1559.
CM6	SHEVCHENKO, A., et al., "Mass spectrometric sequencing of proteins from silver-stained polyacrylamide gels", Anal. Chem., 1996, Vol. 68, pp. 850-858.
CN6	SIMON, R. J., et al., "Peptoids: A molecular approach to drug discovery", Proc. Natl. Acad. Sci. USA, 1992, Vol. 89, pp. 9367-9371.
CO6	SKERRA, A., "Engineering protein scaffolds for molecular recognition", Journal of Molecular Recognition, 2000, Vol. 13, pp. 167-187.
CP6	SKERRA, A., "Lipocalins as a scaffold", Biochimica et Biophysica Acta, 2000, Vol. 1482, pp. 337-350.
CQ6	SLEPAK, V. Z., "Application of surface plasmon resonance for analysis of protein-protein interactions in the G protein-mediated signal transduction pathway", Journal of Molecular Recognition, 2000, Vol. 13, pp. 20-26.
CR6	SMITH, D. B., et al., "Single-step purification of polypeptides expressed in <i>Escherichia coli</i> as fusions with glutathione S-transferase", Gene, 1988, Vol. 67, pp. 31-40.
CS6	SOMIA, N. V., et al., "Retroviral vector targeting to human immunodeficiency virus type 1-infected cells by receptor pseudotyping", Journal of Virology, 2000, Vol. 74, No. 9, pp. 4420-4424.
CT6	SOMIA, N. V., et al., "LFG: an anti-apoptotic gene that provides protection from Fas-mediated cell death", Proc. Natl. Acad. Sci. USA, 1999, Vol. 96, No. 22, pp. 12667-12672.
CU6	SOUTHERN, E. M., "Detection of specific sequences among DNA fragments separated by gel electrophoresis", J. Mol. Biol., 1975, Vol. 98, pp. 503-517.
CV6	STAUDT, L. M., et al., "Cloning of a lymphoid-specific cDNA encoding a protein binding the regulatory octamer DNA motif", Science, 1988, Vol. 241, pp. 577-580.
CW6	STEELE, C. D., et al., "Prenatal Diagnosis using fetal cells isolated from maternal peripheral blood: A review", Clinical Obstetrics and Gynecology, 1996, Vol. 39, No. 4, pp. 801-813.
CX6	STEIN, C. A., "Anti-sense oligodeoxynucleotides - promises and pitfalls", Leukemia, 1992, Vol. 6, No. 10, pp. 967-974.
CY6	STEIN, C. A., et al., "Physicochemical properties of phosphorothioate oligodeoxynucleotides", Nucleic Acids Research, 1988, Vol. 16, No. 8, pp. 3209-3221.
CZ6	STEMPLE, D. L., et al., "Isolation of a stem cell for neurons and glia from the mammalian neural crest", Cell, 1992, Vol. 71, pp. 973-985.
CA7	SUN, L. K., et al., "Chimeric antibody with human constant regions and mouse variable regions directed against carcinoma-associated antigen 17-1A", Proc. Natl. Acad. Sci. USA, 1987, Vol. 84, pp. 214-218.
CB7	TEMPLIN, M. F., et al., "Protein microarray technology", Trends in Biotechnology, 2002, Vol. 20, No. 4, pp. 160-166.
CC7	TIAN, G., et al., "Linear non-competitive inhibition of solubilized human γ -secretase by pepstatin a methylester, L685458, sulfonamides, and benzodiazepines", The Journal of

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CD7		TOLSTOSHEV, P., "Gene therapy, concepts, current trials and future directions", Annu. Rev. Pharmacol. Toxicol., 1993, Vol. 32, pp. 573-596.	
CE7		TOYOFUKU, T., et al., "Dual roles of sema6D in cardiac morphogenesis through region-specific association of its receptor, Plexin-A1, with off-track and vascular endothelial growth factor receptor type 2", Genes & Development, 2004, Vol. 18, pp. 435-447.	
CF7		TUERK, C., et al., "RNA pseudoknots that inhibit human immunodeficiency virus types 1 reverse transcriptase", Proc. Natl. Acad. Sci. USA, 1992, Vol. 89, pp. 6988-6992.	
CG7		UHLMANN, E., et al., "Antisense oligonucleotides: A new therapeutic principle", Chemical Reviews, 1990, Vol. 90, No. 4, pp. 543-584.	
CH7		VAISH, N., et al., "Recent developments in the hammerhead ribozyme field", Nucleic Acids Research, 1998, Vol. 26, No. 23, pp. 5237-5242.	
CI7		VASSAR, R., "β-Secretase (BACE) as a drug target for Alzheimer's disease", Advanced Drug Delivery Reviews, 2002, Vol. 54, pp. 1589-1602.	
CJ7		VAUGHAN T. F., et al., "Human antibodies with sub-nanomolar affinities isolated from a large non-immunized phage display library", Nature Biotechnology, 1996, Vol. 14, pp. 309-314.	
CK7		VÉLY, F., et al., "BIAcore analysis to test phosphopeptide-SH2 domain interactions", Methods in Molecular Biology, 2000, Vol. 121, pp. 313-321.	
CL7		VERHOEYEN, M., et al., "Reshaping human antibodies: Grafting an antilysozyme activity", Science, 1988, Vol. 239, pp. 1534-1536.	
CM7		WAGNER, M. J., et al., "Nucleotide sequence of the thymidine kinase gene of herpes simplex virus type 1", Proc. Natl. Acad. Sci. USA, 1981, Vol. 78, No. 3, pp. 1441-1445.	
CN7		WALSH, C. E., et al., "Gene therapy for human hemoglobinopathies", P.S.E.B.M., 1993, Vol. 204, pp. 289-300.	
CO7		WEINBERGER, S. R., et al., "Recent trends in protein biochip technology", Pharmacogenomics, 2000, Vol. 1, No. 4, pp. 395-416.	
CP7		WILSON, D. S., et al., "Functional protein microarrays", Current Opinion in Chemical Biology, 2001, Vol. 6, pp. 81-85.	
CQ7		WINBERG, M. L., et al., "The transmembrane protein off-track associates with Plexins and functions downstream of Semaphorin signaling during axon guidance", Neuron, 2001, Vol. 32, pp. 53-62.	
CR7		WINTER, G., et al., "Man-made antibodies", Nature, 1991, Vol. 349, pp. 293-299.	
CS7		WHITLOCK, C. A., et al., "Long-term culture of B lymphocytes and their precursors from murine bone marrow", 1982, Vol. 79, pp. 3608-3612.	
CT7		WOOD, C. R., et al., "The synthesis and <i>in vivo</i> assembly of functional antibodies in yeast", Nature, 1985, Vol. 314, pp. 446-449.	
CU7		WU, G. Y., et al., "Delivery systems for gene therapy", Biotherapy, 1991, Vol. 3, pp. 87-95.	
CV7		YACYSHYN, B. R., et al., "A placebo-controlled trial of ICAM-1 antisense oligonucleotide in the treatment of Crohn's disease", Gastroenterology, 1998, Vol. 114, pp. 1133-1142.	
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CX7		YAN, R., et al., "Membrane-anchored aspartyl protease with Alzheimer's disease β-secretase activity", Nature, 1999, Vol. 402, pp. 533-537.	
CY7		YU, G., et al., "The presenilin 1 protein is a component of a high molecular weight intracellular complex that contains β-catenin", The Journal of Biological Chemistry, 1998, Vol. 273, No. 26, pp. 16470-16475.	
CZ7		YU, G., et al., "Nicastrin modulates presenilin-mediated <i>notch/glp-1</i> signal transduction and βAPP processing", Nature, 2000, Vol. 407, pp. 48-54.	
CA8		YU, H., et al., "Structural basis for the binding of proline-rich peptides to SH3 domains", Cell,	
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CC8	ZIJLSTRA, M., et al., "Germ-line transmission of a disrupted β 2-microglobulin gene produced by homologous recombination in embryonic stem cells", Nature, 1989, Vol. 342, pp. 435-438.		
CD8	ZON, G., et al., "Oligonucleotide analogues as potential chemotherapeutic agents", Pharmaceutical Research, 1988, Vol. 5, No. 9, pp. 539-549.		
CE8	KAUVAR, L. M., "Chapter 21: Toxic-chemical detection by pattern recognition", in "New Frontiers in Agrochemical Immunoassay", pp. 305-312. 1995		
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Kevin Hill/	Date Considered	12/10/2009
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /KH/